

Aeronautics Educator Guide			
2009 Mathematics			
Priority Academic Student Skills			
Oklahoma Mathematics			
Grade 2			
Activity/Lesson	State	Standards	
Air Engines (12-16)	OK	MA.2.4.1.a	Measure objects using standard units (e.g., measure length to the nearest foot, inch, and half inch).
Rotor Motor (69-75)	OK	MA.2.5.1.a	Collect, sort, organize, and display data in charts, bar graphs, and tables (e.g., collect data on teeth lost and display results in a chart).
Flight: Interdisciplinary Learning Activities (76-79)	OK	MA.2.5.1.a	Collect, sort, organize, and display data in charts, bar graphs, and tables (e.g., collect data on teeth lost and display results in a chart).
Dunked Napkin (17-22)	OK	MA.2.5.1.a	Collect, sort, organize, and display data in charts, bar graphs, and tables (e.g., collect data on teeth lost and display results in a chart).
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Grade 3			
Activity/Lesson	State	Standards	
Air Engines (12-16)	OK	MA.3.4.1.d	Develop and use strategies to choose an appropriate unit and measurement instrument to estimate measurements (e.g., use parts of the body as benchmarks for measuring length).
Flight: Interdisciplinary Learning Activities (76-79)	OK	MA.3.5.1.b	Read graphs and charts, identify the main idea, draw conclusions, and make predictions based on the data (e.g., predict how many children will bring their lunch based on a menu).
Where is North? The Compass Can Tell Us (87-90)	OK	MA.3.5.1.a	Pose questions, collect, record, and interpret data to help answer questions (e.g., which was the most popular booth at our carnival?).
Plan to Fly There (97-106)	OK	MA.3.4.2.a	Solve simple addition problems with time (e.g., 15 minutes added to 1:10 p.m.).
Paper Bag Mask (23-28)	OK	MA.3.4.1.c	Develop and use the concept of perimeter of different shapes to solve problems.
Paper Bag Mask (23-28)	OK	MA.3.4.1.d	Develop and use strategies to choose an appropriate unit and measurement instrument to estimate measurements (e.g., use parts of the body as benchmarks for measuring length).
Bag Balloons (40-43)	OK	MA.3.5.1.a	Pose questions, collect, record, and interpret data to help answer questions (e.g., which was the most popular booth at our carnival?).

Right Flight (52-59)	OK	MA.3.5.1.b	Read graphs and charts, identify the main idea, draw conclusions, and make predictions based on the data (e.g., predict how many children will bring their lunch based on a menu).
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Grade 4			
Activity/Lesson	State	Standards	
Air Engines (12-16)	OK	MA.4.4.1.c	Select appropriate customary and metric units of measure and measurement instruments to solve application problems involving length, weight, mass, area, and volume.
Rotor Motor (69-75)	OK	MA.4.5.1.b	Collect, organize and record data in tables and graphs (e.g., line graphs (plots), bar graphs, pictographs).
Flight: Interdisciplinary Learning Activities (76-79)	OK	MA.4.5.1.b	Collect, organize and record data in tables and graphs (e.g., line graphs (plots), bar graphs, pictographs).
Plan to Fly There (97-106)	OK	MA.4.4.2.a	Solve elapsed time problems.
We Can Fly, You and I: Interdisciplinary Learning (107-108)	OK	MA.4.5.1.a	Read and interpret data displays such as tallies, tables, charts, and graphs and use the observations to pose and answer questions (e.g., choose a table in social studies of population data and write problems).
Dunked Napkin (17-22)	OK	MA.4.5.1.a	Read and interpret data displays such as tallies, tables, charts, and graphs and use the observations to pose and answer questions (e.g., choose a table in social studies of population data and write problems).
Paper Bag Mask (23-28)	OK	MA.4.4.1.d	Develop and use the concept of area of different shapes using grids to solve problems.